



iSPAN[®] 3676 AdvancedMC[™] ATM OC-3/STM-1 Interface Card

*Multiprotocol interworking technology for network migration
and future-proofing next generation networks*

FEATURES

- Single width, mid-size AdvancedMC
- Single or Dual OC-3/STM-1 interfaces via SFP optics
- PCI-Express (AMC.1) interface to the carrier
- Performance at wire speed for AAL5 for active ports
 - Assuming average packet size is 512 bytes
- 32-bit, 33MHz PMC compliant adapter
- Multimode/Single mode fiber
- Automatic Protection Switching (APS) to ensure system availability for single port configuration
- Mindspeed TM RS8236 155 Mbps ATM SAR
- Mindspeed CX28250 PHY
- Support for ATM AAL5 and AAL0 Adaptation Layers
- Consistent Bit Rate (CBR), Variable Bit Rate (VBR), and Unspecified Bit Rate (UBR), services implemented in the hardware
- Provisioning support for up to 32k VCs with up to 4K simultaneously active using full duplex ports
- OAM status notification supported
- Classical IP (CLIP) Support for Solaris and Linux
- Software Support
 - Solaris
 - Linux

APPLICATIONS

- ATM Access Card*
- Video Conferencing*
- ATM Signaling Monitors*
- Test Equipment*
- Routers/Bridges*
- Signaling Gateways*

High Performance

Designed especially for high-availability, high-bandwidth access applications, the iSPAN 3676 provides ATM connectivity at 155 Mbps.

Reliable ATM Connectivity

Today's networks require scalable, high-performance platforms with the flexibility to allow network capacity to keep pace with customer's demands. The iSPAN 3676 controller meets the needs of a variety of applications, including IP switching and routing, Internet connections and other applications that require the Quality of Service (QoS) guarantees provided by ATM.

Cost Effective

The competitive price of the iSPAN 3676 makes it the best 155Mbps value in the industry.



iSPAN 3676 Network Interface Card

Hardware

The iSPAN 3676 AdvancedMC OC-3/STM-1 Network Interface Card is designed around the Mindspeed RS8234 ATM SAR and the TranSwitch PHAST-6P framer.

ATM SAR Engine

- Mindspeed RS8236 ATM SAR and Traffic Manager
- 4 MB SRAM per SAR device

PCI-Express Bridge

- PLX Technology PEX8111: PCIe x1 to PCI 32-bit/33 MHz Bridge

OC-3/STM-1 Line Interfaces

- One or two, active, OC-3/STM-1 ports
 - Dual port configuration has a cumulative throughput of 200Mbps
- Supports 1+1 APS for OC-3/STM-1 for single port configuration
- Line transceivers in interchangeable SFP modules for Maximum configurability

Telecom Clock Management

The 3676 utilizes clocks TCLKA, TCLKB, and FCLKA, as stated in the AMC.0 R2.0 specification.

Software

The 3676 is available with a kit for board & software development in Linux® environments. Included in this kit is the iSAR Application Programming Interface (API) to provide a seamless, consistent interface between the 3676 and supported operating systems. The Interphase-developed API and software layers enable application development without the need to be involved in low layer ATM driver development. The Automatic Protection Switching (APS) feature is hardware supported, enabling maximum uptime, reliability and network resiliency with software notification and PHY modification support. The iSAR API is backwards compatible with current Interphase iSPAN 4576 and iSPAN 5576 products.

Interphase Customer Service and Support

All Interphase products are backed by support programs designed to deliver maximized uptime for our customers worldwide. Included are standard and extended product warranty packages, standard and enhanced "7x24" live technical assistance, and free Web-based online support for the life of the product, including technical notes, downloadable driver enhancements, and information on new product releases. Interphase customer support ensures investment protection for your networking, remote access and mass storage connectivity.

Technical Specifications

Architecture

SAR Engine	RS8236 ATM SAR
RAM Memory	4 MB SRAM
Framer/LIU	TranSwitch PHAST-6P
Connectivity	AMC.1 (PCI-Express x1)

Mechanical

Form Factor	AdvancedMC single-width mid height
Length	180.6 mm (7.11 in.)
Width	73.5 mm (2.89 in.)

Operating Environment

Power Consumption	13.6 W @ 12 V, 0.2 W @ 3.3 V
Temperature	0 to 55 °C (32 to 131 °F)
Storage Range	-40 to 80 °C (-40 to 176 °F)
Relative Humidity	10% to 95% non-condensing
Altitude	0 to 15,000 ft



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About Interphase Corporation

Interphase Corporation (NASDAQ: INPH) delivers solutions for network connectivity, interworking, and packet processing for key applications for the communications, Mil/Aero, and enterprise markets. Founded in 1974, Interphase provides expert customization services and contract manufacturing, in addition to its COTS portfolio, and plays a leadership role in next generation AdvancedTCA® (ATCA), AdvancedMC™ (AMC), PCI-X, and PCIe standards and solutions.

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